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(56) Documents Cited

GB 2270585 A **GB 2215104 A** **US 4954813 A**
US 4912457 A

(58) Field of Search

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(54) Abstract Title

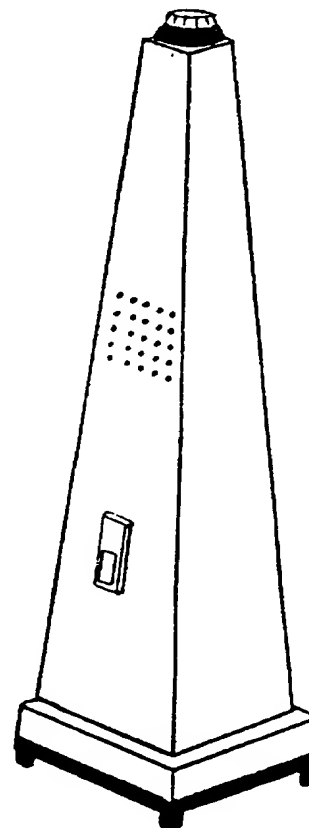
Portable voice messaging and warning device

(57) The device is a self contained unit with an onboard rechargeable battery. It is designed to be used in a variety of locations where external power is not readily available. It is fitted with an infrared movement detector, which, when activated, will initiate a warning or message. This detector has an adjustable range of detection to cater for confined spaces or large open areas.

An electronic speech processor is fitted within the device. Facility is provided to programme, on site, any message, in any language, as may be required to suit the location and environment. This message which is transmitted through an onboard audio speaker can be changed as frequently as required, and will remain in the processor, even in complete power down.

The device is fitted with a six position keyswitch, which controls all of the functions of the unit. Incorporated on the same control panel is a push button for programming the speech message and a socket for recharging the battery.

Fig 1



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Fig 1

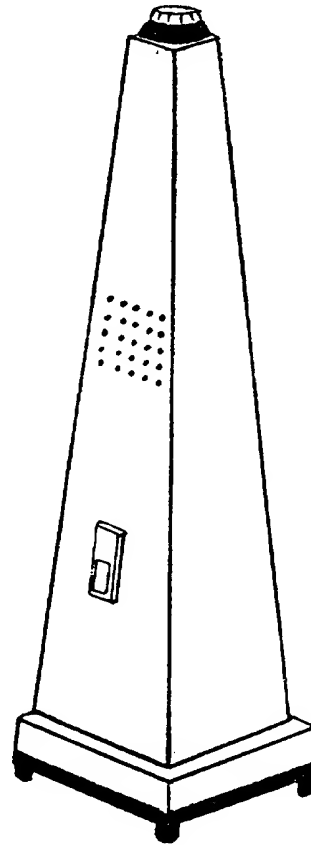
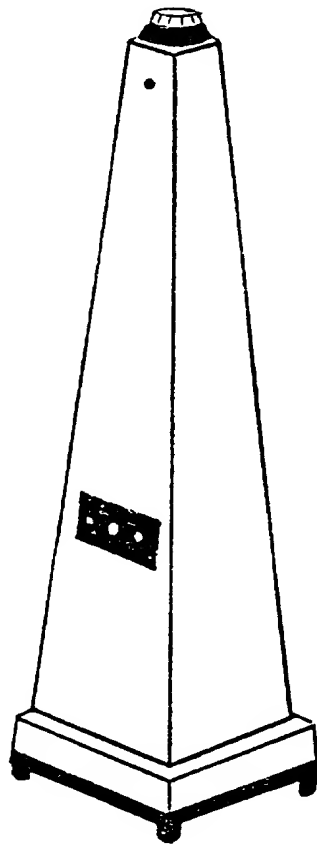


Fig 2



PORTABLE VOICE MESSAGING AND WARNING DEVICE

This invention relates to a portable voice messaging and warning device.

Portable warning devices such as written or pictorial signs and cones, and static voice messaging devices are in common use. Conventional signs have limited benefits for blind or partially sighted people, and voice messaging devices are generally fixed to deliver a message associated to the area or structure on which they are attached.

The purpose of this invention is to provide a portable, movement activated, programmable voice annunciator and visual warning device.

Accordingly, this invention is a self contained, portable unit, which can be programmed, on site, to detect movement at a preferred range and to deliver any spoken message, in any language, to suit the location and environment in which it is sited, whilst providing a visual warning light. The whole unit is powered by its own onboard rechargeable battery.

A specific embodiment of the invention will now be described :

Drawings are provided for visual reference.

Figure 1 illustrates the front and side elevation

Figure 2 illustrates the rear and side elevation

The unit consists of a base with rubber feet or castors, a body in the form of a square section cone, which houses a rechargeable battery, a variable range Passive Infrared Detector, a six position programme and selector keyswitch, a loud speaker, a speech processor, a timed warning strobe and eyebolts for secure anchorage to a fixed object.

The unit is controlled by the six position keyswitch. Each key position provides different functions as follows:

- OFF ~ In this position the unit is switched off to preserve battery life when the unit is in store.

- PROGRAMME ~ In this position, when used in conjunction with the adjacent programme button, a message can be programmed onto the speech processor through the onboard microphone.

- STANDBY ~ In this position, power is provided to the Passive Infrared Detector only.

- STROBE ~ In this position, when the Passive Infrared Detector is activated, the strobe will be activated for a timed period.

- STROBE/VOICE ~ In this position, when the Passive Infrared Detector is activated, the strobe will be activated and the pre-programmed spoken message will be transmitted through the onboard speaker.

- VOICE ~ In this position, when the Passive Infrared Detector is activated, the pre-programmed spoken message only will be transmitted through the onboard speaker.

The Passive Infrared Detector is fitted on the face of the unit. This is designed to detect movement within its field of view. This field of view can be adjusted to suit the conditions, using the external adjusting device.

The onboard battery is designed to provide power for the whole unit. A socket is provided adjacent to the keyswitch for recharging the battery via a separate battery charger.

CLAIMS

1. A portable voice messaging and warning device, consisting of a self contained, unit, which can be programmed, on site, to detect movement at a preferred range and to deliver any spoken message, in any language, to suit the location and environment in which it is sited, whilst providing a visual warning light. The whole unit is powered by its own onboard rechargeable battery.
2. A portable voice messaging and warning device as claimed in Claim 1 whereupon an external mechanism is provided to adjust the range of the Passive Infrared movement detector.
3. A portable voice messaging and warning device as claimed in Claim 1 whereupon a socket is provided to recharge the onboard battery from a separate battery charger.
4. A portable voice messaging and warning device as claimed in Claim 1 whereupon a six position keyswitch and push button is provided to select the various functions of the device and programme the voice message on the speech processor module.
5. A portable voice messaging and warning device as claimed in Claim 1 wherein an electronic speech processor is fitted, in such a manner as to provide external facilities to adjust the volume of the speech signal, and access to the onboard message programming microphone.
6. A portable voice messaging and warning device as claimed in Claim 1 whereon an electronically timed strobe light is fitted to provide visual warning.



INVESTOR IN PEOPLE

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Claims searched: 1-6

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Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.R): G4N (NAA, NDAX)

Int Cl (Ed.7): G09F 25/00, 27/00

Other:

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB 2270585 A (VOSPER)	1-6
X	GB 2215106 A (VOICEBOX)	1-6
X	US 4954813 (AUGUST)	1-6
X	US 4912457 (LADD)	1-6

X Document indicating lack of novelty or inventive step
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& Member of the same patent family

A Document indicating technological background and/or state of the art.
P Document published on or after the declared priority date but before the filing date of this invention.
E Patent document published on or after, but with priority date earlier than, the filing date of this application.

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